Inventions & Innovation Emerging Technology

Fiber Sizing Sensor and Controller

Current measurements of fiber sizes during manufacturing are done offline via sampling and are time consuming and labor-intensive and are not very useful for process control. A new technology uses ensemble laser diffraction (ELD) to provide real-time measurements of fiber size distribution. This technology enables on-line measurements for process control and also significantly reduces the time and labor needed for off-line fiber size measurements. Use of this system will reduce the frequency of process shutdowns and in the event of a shutdown, will help minimize the associated energy and material loss. By providing a better control of the fiber size, this technology will also help reduce the amount of fibrous material used in the end products (e.g. building insulation, filter media and fiber reinforcements) without compromising the desired product specifications.



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